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Phe Leu Gly Leu Leu Tyr Glu Leu Glu Glu Asn Thr Asp Lys Ala Val

Glu Cys Tyr Arg Arg Ser Val Glu Leu Asn Pro Thr Gln Lys Asp Leu 85

Val Leu Lys Ile Ala Glu Leu Leu Cys Lys Asn Asp Val Thr Asp Gly 105

Arg Ala Lys Tyr Trp Leu Glu Arg Ala Ala Lys Leu Phe Pro Gly Ser 125 115 120

Pro Ala Ile Tyr Lys Leu Lys Glu Gln Leu Leu Asp Cys Glu Gly Glu 130

Asp Gly Trp Asn Lys Leu Phe Asp Leu Ile Gln Ser Glu Leu Tyr Val 145 150 155 160

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- Ser Thr Lys Arg Leu Lys Asp Ala Val Ala His Cys His Glu Ala Glu 180 185 190
- Arg Asn Ile Ala Leu Arg Ser Ser Leu Glu Trp Asn Ser Cys Val Val 195 200 205
- Gln Thr Leu Lys Glu Tyr Leu Glu Ser Leu Gln Cys Leu Glu Ser Asp 210 215 220
- Lys Ser Asp Trp Arg Ala Thr Asn Thr Asp Leu Leu Ala Tyr Ala 225 230 230 240
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- Leu Ile Ala Phe Gln Val Pro Arg Pro Lys Ile Lys Leu Ile Lys Gly 325 330 335
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- Leu Lys Glu Ile Val Glu Thr Phe Ala Asn Lys Ser Gly Gln Ser Ala 370 375 380
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- Glu Asp Leu Thr Arg Tyr Asp Val Gly Ala Ile Arg Ala His Asn Gly
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- Pro Gly Asn Val Ala Lys Leu Arg Leu Leu Val Gln His Glu Ile Asn 545 550 550 560
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- His Trp Ala Glu Cys Leu Gln Lys Thr Gly Ser Gly Leu Asn Ser Phe 580 585 590
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- Val Leu Pro Leu Leu Lys Ile Ile Lys Lys Lys Asn Ser Ile Pro Glu 610 615 620
- Pro Ile Asp Pro Leu Phe Lys His Phe His Ser Val Asp Ile Gln Ala 625 630 635 640

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- Ser Ile Lys Ser Val Val Ser Tyr Trp Asn Leu Ala Leu Ile Phe His 675 680 685
- Arg Lys Ala Glu Asp Ile Glu Asn Asp Ala Leu Ser Pro Glu Glu Gln 690 695 700
- Glu Glu Cys Lys Asn Tyr Leu Arg Lys Thr Arg Asp Tyr Leu Ile Lys 705 710 715 720
- Ile Ile Asp Asp Ser Asp Ser Asn Leu Ser Val Val Lys Lys Leu Pro 725 730 735
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- Leu Glu Asp Tyr Ser Glu Gly Gly Pro Leu Tyr Lys Asn Gly Ser Leu 755 760 765
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- Tyr Ser Leu Ser Pro Ser Lys Ser Tyr Lys Tyr Ser Pro Lys Thr Pro 785 790 795 800
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- Gin Val Glu Ala Ile Lys Lys Glu Met Gln Glu Leu Lys Leu Asn Ser 820 825 830
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- Pro Leu Thr Val Ala Thr Thr Gly Pro Ser Val Tyr Tyr Ser Gln Ser 865 870 875 880
- Pro Ala Tyr Asn Ser Gln Tyr Leu Leu Arg Pro Ala Ala Asn Val Thr 885 890 895

Pro Thr Lys Gly Pro Val Tyr Gly Met Asn Arg Leu Pro Pro Gln Gln 900 905 910

- His Ile Tyr Ala Tyr Pro Gln Gln Met His Thr Pro Pro Val Gln Ser 915 920 925
- Ser Ser Ala Cys Met Phe Ser Gln Glu Met Tyr Gly Pro Pro Ala Leu 930 935 940
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- Tyr Phe Asn Tyr Asn Val Gln Gln Thr Ser Thr Asn Pro Pro Leu Pro 965 970 975
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Pro	Ala 1580		Ala	Ser	Phe	Lys 1585		Gly	Thr	Ser	Glu 1590		Ser	Lys

Ala Pro Lys Ser Gly Phe Glu Gly Met Phe Thr Lys Lys Glu Gly Gln Trp Asp Cys Ser Val Cys Leu Val Arg Asn Glu Ala Ser Ala Thr Lys Cys Ile Ala Cys Gln Asn Pro Gly Lys Gln Asn Gln Thr Thr Ser Ala Val Ser Thr Pro Ala Ser Ser Glu Thr Ser Lys Ala Pro Lys Ser Gly Phe Glu Gly Met Phe Thr Lys Lys Glu Gly Gln Trp Asp Cys Ser Val Cys Leu Val Arg Asn Glu Ala Ser Ala Thr 1670 1675 1680 Lys Cys Ile Ala Cys Gln Asn Pro Gly Lys Gln Asn Gln Thr Thr Ser Ala Val Ser Thr Pro Ala Ser Ser Glu Thr Ser Lys Ala Pro Lys Ser Gly Phe Glu Gly Met Phe Thr Lys Lys Glu Gly Gln Trp Asp Cys Ser Val Cys Leu Val Arg Asn Glu Ala Ser Ala Thr Lys Cys Ile Ala Cys Gln Cys Pro Ser Lys Gln Asn Gln Thr Thr Ala Ile Ser Thr Pro Ala Ser Ser Glu Ile Ser Lys Ala Pro Lys Ser Gly Phe Glu Gly Met Phe Ile Arg Lys Gly Gln Trp Asp Cys Ser Val Cys Cys Val Gln Asn Glu Ser Ser Ser Leu Lys Cys Val Ala Cys Asp Ala Ser Lys Pro Thr His Lys Pro Ile Ala Glu Ala Pro Ser Ala Phe Thr Leu Gly Ser Glu Met Lys Leu His Asp Ser Ser

Gly	Ser 1835	Gln	Val	Gly	Thr	Gly 1840	Phe	Lys	Ser	Asn	Phe 1845	Ser	Glu	Lys
Ala	Ser 1850	Lys	Phe	Gly	Asn	Thr 1855	Glu	Gln	Gly	Phe	Lys 1860	Phe	Gly	His
Val	Asp 1865	Gln	Glu	Asn	Ser	Pro 1870	Ser	Phe	Met	Phe	Gln 1875	Gly	Ser	Ser
Asn	Thr 1880	Glu	Phe	Lys	Ser	Thr 1885	Lys	Glu	Gly	Phe	Ser 1890	Ile	Pro	Val
Ser	Ala 1895	Asp	Gly	Phe	Lys	Phe 1900	Gly	Ile	Ser	Glu	Pro 1905	Gly	Asn	Gln
Glu	Lys 1910	ГЛЗ	Ser	Glu	Lys	Pro 1915	Leu	Glu	Asn	Gly	Thr 1920	Gly	Phe	Gln
Ala	Gln 1925		Ile	Ser	Gly	Gln 1930		Asn	Gly	Arg	Gly 1935	Val	Ile	Phe
Gly	Gln 1940	Thr	Ser	Ser	Thr	Phe 1945	Thr	Phe	Ala	Asp	Leu 1950	Ala	Lys	Ser
Thr	Ser 1955	_	Glu	Gly	Phe	Gln 1960		Gly	Lys	Гуs	Asp 1965	Pro	Asn	Phe
Lys	Gly 1970		Ser	Gly		Gly 1975	Glu	ГЛЗ	Leu	Phe	Ser 1980	Ser	Gln	Tyr
Gly	Lys 1985		Ala	Asn	Lys	Ala 1990		Thr	Ser	Gly	Asp 1995	Phe	Glu	Lys
						Thr 2005							His	Phe
Glu	Pro 2015		Val	Gln	Met	Pro 2020	Glu	Lys	Val	Glu	Leu 2025	Val	Thr	Gly
Glu	Glu 2030	Asp	Glu	Lys	Val	Leu 2035	Tyr	Ser	Gln	Arg	Val 2040	Lys	Leu	Phe
Arg	Phe 2045	Asp	Ala	Glu	Val	Ser 2050	Gln	Trp	Lys	Glu	Arg 2055	Gly	Leu	Gly

Asn	Leu 2060	ГÀЗ	Ile	Leu	Lys	Asn 2065	Glu	Val	Asn	Gly	Lys 2070	Leu	Arg	Met
Leu	Met 2075	Arg	Arg	G1u	Gln	Val 2080	Leu	Lys	Val	Суз	Ala 2085		His	Trp
Ile	Thr 2090	Thr	Thr	Met	Asn	Leu 2095		Pro	Leu	Ser	Gly 2100	Ser	Asp	Arg
Ala	Trp 2105	Met	Trp	Leu		Ser 2110		Phe	Ser	Asp	Gly 2115	Asp	Ala	Lys
Leu	Glu 2120	Gln	Leu	Ala	Ala	Lys 2125	Phe	Lys	Thr	Pro	Glu 2130	Leu	Ala	Glu
Glu	Phe 2135	ГÀЗ	Gln	Lys	Phe	Glu 2140		Суз	Gln	Arg	Leu 2145		Leu	Asp
Ile	Pro 2150		Gln	Thr	Pro	Ніз 2155		Leu	Val	qaA	Thr 2160		Arg	Ala
Ala	Lys 2165	Leu	Ile	Gln	Arg	Ala 2170		Glu.	Met	Lys	Ser 2175		Leu	Lys
Asp	Phe 2180	-	Thr	Phe	Leu	Thr 2185		Asp	Gln	Thr	Lys 2190	Val	Thr	Glu
Glu	Glu 2195		Lys	Gly		Gly 2200		Gly	Ala	Ala	Gly 2205	Ala	Ser	Asp
Thr	Thr 2210		Lys	Pro	Asn	Pro 2215		Asn	Thr	Gly	Pro 2220		Leu	Glu
	Asp 2225					Arg 2230		Asp	Ala	Leu	Asp 2235		Ser	Val
Ser	Ser 2240		Ser	Val	His	Ala 2245		Pro	Leu	Ala	Ser 2250		Pro	Val
Arg	Lys 2255		Leu	Phe	Arg	Phe 2260		Glu	Ser	Thr	Thr 2265		Phe	Asn
Phe	Ser 2270		Lys	Ser	Ala	Leu 2275		Pro	Ser	Lys	Ser 2280		Ala	Lys
Leu	Asn 2285		Ser	Gly	Thr	Ser 2290		Gly	Thr	Ąsp	Glu 2295		Ser	Asp

Val	Thr 2300	Gln	Glu	Glu	Glu	Arg 2305	Asp	Gly	Gln	Tyr	Phe 2310	Glu	Pro	Val
Val	Pro 2315	Leu	Pro	Asp	Leu	Val 2320	Glu	Val	Ser	Ser	Gly 2325	Glu	Glu	Asn
Glu	Gln 2330	Val	Val	Phe	Ser	ніs 2335	Arg	Ala	ГÀЗ		Tyr 2340	Arg	Туr	Asp
Lys	Asp 2345		Gly	Gln	Trp	Lys 2350		Arg	Gly		Gly 2355	Asp	Ile	Lys
Ile	Leu 2360	Gln	Asn	Tyr	qsA	Asn 2365		Gln	Val	Arg	Ile 2370	Val	Met	Arg
Arg	Asp 2375		Val	Leu	Lys	Leu 2380		Ala	Asn	His	Arg 2385	Ile	Thr	Pro
Asp	Met 2390	Thr	Leu	Gĺn	Asn	Met 2395		Gly	Thr	Glu	Arg 2400		Trp	Leu
Trp	Thr 2405		Суз	Asp	Phe	Ala 2410		Gly	Glu	Arg	Lys 2415		Glu	His
Leu	Ala 2420		Arg	Phe		Leu 2425		Asp	Val	Ala	Asp 2430		Phe	Lys
Lys	Ile 2435		Asp	Glu	Ala	Lys 2440		Ala	Gln	Glu	Lys 2445		Ser	Leu
Ile	Thr 2450		His	Val	Ser	Arg 2455		Ser	Thr	Pro	Arg 2460		Ser	Pro
Cys	Gly 2465		Ile	Ala	Val	Ala 2470		Leu	Glu	Glu	Thr 2475		Arg	Glu
Arg	Thr 2480	_	Val	Ile	Gln	Gly 2485	-	Asp	Val	Ala	Asp 2490		Thr	Ser
Glu	Val 2495		Val	Ser	Ser	Thr 2500		Glu	Thr	Thr	Pro 2505		Ala	Val
Val	Ser 2510		Pro	Lys	Phe	Val 2515		Gly	Ser	Glu	Ser 2520		Гўз	Ser

Ile	Phe 2525	Ser	Ser	Glu	Lys	Ser 2530	Lys	Pro	Phe		Phe 2535	Gly	Asn	Ser
Ser	Ala 2540	Thr	Gly	Ser	Leu	Phe 2545	Gly	Phe	Ser	Phe	Asn 2550	Ala	Pro	Leu
Lys	Ser 2555		Asn	Ser	Glu	Thr 2560		Ser	Val	Ala	Gln 2565	Ser	Gly	Ser
Glu	Ser 2570	Lys	Val	Glu	Pro	Lys 2575	Lys	Сув	Glu	Leu	Ser 2580	Lys	Asn	Ser
Asp	Ile 2585	Glu	Gln	Ser	Ser	Asp 2590	Ser	Lys	Val	Lys	Asn 2595	Leu	Phe	Ala
Ser	Phe 2600	Pro	Thr	Glu	Glu	Ser 2605	Ser	Ile	Asn	Tyr	Thr 2610	Phe	Lys	Thr
Pro	Glu 2615		Ala	ГÀЗ	Glu	Lys 2620		Lys	Pro	Glu	Asp 2625		Pro	Ser
Asp	Asp 2630	Asp	Val	Leu	Ile	Val 2635	Tyr	Glu	Leu	Thr	Pro 2640	Thr	Ala	Glu
Gln	Lys 2645		Leu	Ala	Thr	L ув 2650		Lys	Leu	Pro	Pro 2655		Phe	Phe
Суз	Туr 2660		Asn	Arg	Pro	Asp 2665		Val	Ser		Glu 2670		Glu	Asp.
Asp	Glu 2675		Phe	Glu	Thr	Ala 2680		Lys	Lys	Leu	Asn 2685		Lys	Leu
_	Leu 2690										Glu 2700		Asn	Thr
Ala	Asp 2705		Glu	Lys	Glu	Cys 2710		Ile	Val	Trp	Glu 2715		Lys	Pro
Thr	Val 2720	Glu	Glu	Lys	Ala	Lys 2725		Asp	Thr	Leu	Lys 2730		Pro	Pro
Thr	Phe 2735	Phe	Сув	Gly	Val	Cys 2740		Asp	Thr	Asp	Glu 2745		Asn	Gly
Asn	Gly 2750		Asp	Phe	Gln	Ser 2755		Leu	Gln	Lys	Val 2760		Glu	Ala

Gln	Lys 2765	Ser	Gln	Thr	Glu	Glu 2770	Ile	Thr	Ser	Thr	Thr 2775	Asp	Ser	Val
Tyr	Thr 2780	Gly	Gly	Thr	Glu	Val 2785	Met	Val	Pro	Ser	Phe 2790	Суз	Lys	Ser
Glu	Glu 2795	Pro	Asp	Ser	Ile	Thr 2800		Ser	Ile	Ser	Ser 2805	Pro	Ser	Val
Ser	Ser 2810	Glu	Thr	Met	Asp	Lys 2815	Pro	Val	qeA	Leu	Ser 2820	Thr	Arg	Lys
Glu	Ile 2825	qeA	Thr	qzA	Ser	Thr 2830		Gln	G1y	Glu	Ser 2835	Lys	Ile	Val
Ser	Phe 2840	Gly	Phe	Gly	Ser	Ser 2845	Thr	Gly	Leu	Ser	Phe 2850	Ala	Asp	Leu
Ala	Ser 2855		Asn	Ser	Gly	Asp 2860		Ala	Phe	Gly	Ser 2865	Lys	Asp	Lys
Asn	Phe 2870	Gln	Trp	Ala	Asn	Thr 2875	Gly	Ala	Ala	Val	Phe 2880	Gly	Thr	Gln
Ser	Val 2885	Gly	Thr	Gln	Ser	Ala 2890		Lys	Val	Gly	Glu 2895		Glu	Asp
Gly	Ser 2900		Glu	Glu	Val	Val 2905		Asn	Glu	Asp	Ile 2910		Phe	Glu
Pro	Ile 2915		Ser	Leu	Pro	Glu 2920		Glu	Val	Lys	Ser 2925		Glu	Glu
	Glu 2930										Leu 2940		Arg	Trp
Asp	Arg 2945	Asp	Val	Ser	Gln	Trp 2950		Glu	Arg	Gly	Val 2955		Asp	Ile
Гуз	Ile 2960	Leu	Trp	His	Thr	Met 2965		Asn	Tyr	Tyr	Arg 2970	Ile	Leu	Met
Arg	Arg 2975	Asp	Gln	Val	Phe	Lys 2980		Суз	Ala	Asn	His 2985	Val	Ile	Thr

Lys Thr Met Glu Leu Lys Pro Leu Asn Val Ser Asn Asn Ala Leu 2990 2995 3000

- Val Trp Thr Ala Ser Asp Tyr Ala Asp Gly Glu Ala Lys Val Glu 3005 3010 3015
- Gln Leu Ala Val Arg Phe Lys Thr Lys Glu Val Ala Asp Cys Phe 3020 3025 3030
- Lys Lys Thr Phe Glu Glu Cys Gln Gln Asn Leu Met Lys Leu Gln 3035 3040 3045
- Lys Gly His Val Ser Leu Ala Ala Glu Leu Ser Lys Glu Thr Asn 3050 3060
- Pro Val Val Phe Phe Asp Val Cys Ala Asp Gly Glu Pro Leu Gly 3065 3070 3075
- Arg Ile Thr Met Glu Leu Phe Ser Asn Ile Val Pro Arg Thr Ala 3080 3085 3090
- Glu Asn Phe Arg Ala Leu Cys Thr Gly Glu Lys Gly Phe Gly Phe 3095 3100 3105
- Lys Asn Ser Ile Phe His Arg Val Ile Pro Asp Phe Val Cys Gln 3110 3120
- Gly Gly Asp Ile Thr Lys His Asp Gly Thr Gly Gly Gln Ser Ile 3125 3130 3135
- Tyr Gly Asp Lys Phe Glu Asp Glu Asn Phe Asp Val Lys His Thr 3140 3150
- Gly Pro Gly Leu Leu Ser Met Ala Asn Gln Gly Gln Asn Thr Asn 3155 3160 3165
- Asn Ser Gln Phe Val Ile Thr Leu Lys Lys Ala Glu His Leu Asp 3170 3175 3180
- Phe Lys His Val Val Phe Gly Phe Val Lys Asp Gly Met Asp Thr 3185 3190 3195
- Val Lys Lys Ile Glu Ser Phe Gly Ser Pro Lys Gly Ser Val Cys 3200 3205 3210
- Arg Arg Ile Thr Ile Thr Glu Cys Gly Gln Ile 3215 $$ 3220